

1. Complete the Borda Method on the preference schedule below. Is there anything that bothers you about the winner?

| | 21 | 10 | 9 |
|-----|----|----|---|
| 1st | A | B | B |
| 2nd | B | C | C |
| 3rd | C | A | A |

Majority Criterion

2. (Example 11) Below is a preference schedule (left) and the results from all one-to-one matchups (right).

| | 5 | 5 | 6 | 4 | matchup | A vs. B | A vs. C | A vs. D | B vs. C | B vs. D | C vs. D |
|-----|---|---|---|---|---------|---------|---------|---------|---------|---------|---------|
| 1st | D | A | C | B | tally | A : 10 | A : 14 | A : 5 | B : 4 | B : 15 | C : 11 |
| 2nd | A | C | B | D | | B : 10 | C : 6 | D : 15 | C : 16 | D : 5 | D : 9 |
| 3rd | C | B | D | A | winner | | | | | | |
| 4th | B | D | A | C | | | | | | | |

Independence of irrelevant alternatives

3. Recap of **Fairness Conditions**

Condition

Pass

Fail

Arrow's Impossibility Theorem

4. Approval Voting

| | 30 | 15 | 10 | 10 |
|-----------|----|----|----|----|
| Anchorage | X | X | | |
| Bettles | X | | X | X |
| Chevak | | X | | X |